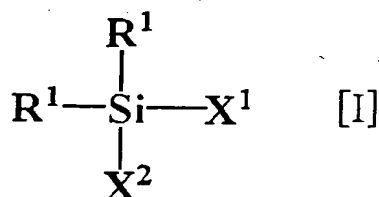
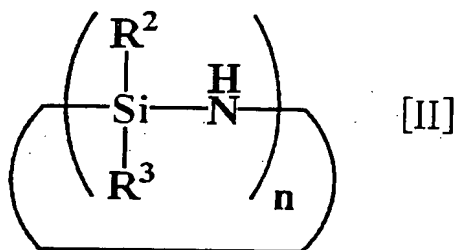


# CLAIMS

1. A method of the production of a packing material for liquid chromatography which comprises chemically modifying silica gel with a bifunctional silane compound represented by the general formula [I]:



[wherein,  $\text{X}^1$  and  $\text{X}^2$ , the same or different, represent a hydrogen atom, a halogen atom or an alkoxy group having 1 to 4 carbon atoms; and  $\text{R}^1$  represents an alkyl group or an aryl group which can have substituent(s)], and carrying out an endcapping reaction of the resulting chemically modified silica gel using bifunctional cyclic silazane represented by the general formula [II]:

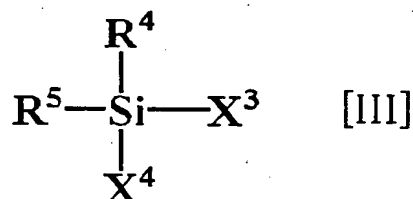


[wherein,  $\text{R}^2$  and  $\text{R}^3$ , the same or different, represent an alkyl group having 1 to 4 carbon atoms; and  $n$  represents a value indicating unit number that forms the ring, which is an integer

of 2 to 10].

2. The method of the production of a packing material for liquid chromatography according to claim 1 wherein the alkyl group represented by  $R^1$  in the general formula [I] has an aryl group, an amino group, a cyano group or a nitro group at the end thereof, or has an amide group, a carbamate group, a carbamide group, an ester group or a carbonate group at a site other than the end thereof.

3. The method of the production of a packing material for liquid chromatography according to claim 1 or 2 wherein bifunctional cyclic silazane represented by the general formula [II] and a bifunctional silane compound represented by the general formula [III]:



[wherein,  $X^3$  and  $X^4$ , the same or different, represent a hydrogen atom, a halogen atom or an alkoxyl group having 1 to 4 carbon atoms; and  $R^4$  and  $R^5$ , the same or different, represent an alkyl group having 1 to 4 carbon atoms] are used in combination.

4. A packing material for liquid chromatography produced by the method according to any one of claims 1 to 3.

5. A column for liquid chromatography packed with a packing material for liquid chromatography according to claim 4.

6. A method of the analysis or a method of the fractionation of a compound wherein the column for liquid chromatography according to claim 5 is used.

7. The method of the analysis or the method of the fractionation of a compound according to claim 6 wherein the compound according to claim 6 is a peptide or a protein included in a biological sample.